HEC'S PET/PTO 1 1 MAR 2005
REATY 1527556

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP020909KR	FOR FURTHER ACTION	see Notification of 7 (Form PCT/ISA/220	Transmittal of International Search Report)) as well as, where applicable, item 5 below.			
International application No.	International filing date	(day/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/KR02/02055	05 NOVEMBER 200	2 (05.11.2002)	18 SEPTEMBER 2002 (18.09.2002)			
Applicant SAMSUNG ELECTRONICS CO., LTD. et al						
This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of sheets. It is also accompanied by a copy of each prior art document cited in this report.						
It is also accompanied by a copy of each prior art document cited in this report. 1. Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)). b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing: contained in the international application in written form. filed together with the international application in computer readable form. furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readable form. the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished. the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished. Certain claims were found unsearchable (See Box I). Unity of invention is lacking (See Box II). With regard to the title, the text is approved as submitted by the applicant. the text has been established by this Authority to read as follows:						
	e of mailing of this internations with the abstract is suggest a figure.	tional search report, su	t appears in Box III. The applicant may, ubmit comments to this Authority. None of the figures.			

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 G02F 1/1343

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC7 G02F 1/13, G02F 1/133, G02F 1/136, G02F 1/1345, G02F 1/137.

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched KIPONET

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Korean Patents and applications for inventions since 1975, Korean Utility models and applications for Utility models since 1975

Japanese Utility models and application for Utility models since 1975

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 95-0002943B1(HISIDENKI ELECTRONICS CO., LTD.) 28 MARCH 1995 SEE THE WHOLE DOCUMENT	1-7
A	KR 1999-0072860A(HITACHI, LTD.) 27 SEPTEMBER 1999 SEE THE WHOLE DOCUMENT	1-11
A	KR 2000-0048021A(NIPPON DENKI CO., LTD.) 07 JULY 2000 SEE THE WHOLE DOCUMENT	1-11
A	US 5162933(NIPPON TELEGRAPH AND TELEPHONE CORPORATION.) 10 NOVEMBER 1992 SEE THE WHOLE DOCUMENT	1-7
A	US 6310667B1(HITACHI, LTD.) 30 OCTOBER 2001 SEE THE WHOLE DOCUMENT	1-11

	Further documents are listed in the continuation of Box C.	See patent family annex.
"E" "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the internationa filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family
Date	of the actual completion of the international search	Date of mailing of the international search report
	24 JUNE 2003 (24.06.2003)	25 JUNE 2003 (25.06.2003)
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